


Thank you for purchasing the new generation color weather station. Designed and engineered with the state-of-art technology and components, this instrument will provide accurate and reliable measurement of barometric pressure, weather forecast, in/ out humidity, temperature, heat index, dew point as well as moon phase and radio-controlled clock. Read this manual carefully to fully explore the features and functions of the new product.

### Name and Functions of Buttons:

|   | <u>Press Functions</u>                      | <u>Hold 3 seconds</u>    |
|---|---|--------------------------|
| CLOCK   | Read time, calendar and day-of-week         | Set Clock & Calendar     |
| ALARM   | Read alarm time; enable/disable alarm       | Alarm time setting       |
| ▲ UP  | 1 step forward in setting                   | Fast advance             |
| ▼ Down  | 1 step backward in setting                  | Fast backward            |
| CHANNEL/<br>SEARCH  | Select indoor, Channel 1,2,3, auto scroll ↻ | Search for remote sensor |
| MEMORY  | Read max/min temperatures & humidity        | Clear memory record      |
| HEAT INDEX/<br>DEW POINT  | Read Heat Index & Dew Point                 |                          |
| PRESSURE  | Toggle pressure unit hPa, inHg & mb         | Altitude setting         |
| SNOOZE/LIGHT  | Trigger snooze alarm & extend backlight     |                          |
| ZONE  | Toggle RC time & Zone time                  | Zone time setting        |
| C/F   | Toggle degree C & F unit                    |                          |
|  | Search for Radio-Controlled time            |                          |
| RESET   | System reset                                |                          |

## **BATTERY & ADAPTER INSTALLATION**

### Home Receiver Unit:

Main Power Source: Plug in the 6.0V adapter into the adapter socket at the back for basic operation and continuous backlight.

Backup Power: Lift off the battery cover, install 3 pieces of AA backup batteries according to the polarity indicated, close the battery cover.

### Remote Sensor:

Loosen the screws on the battery door with a small screwdriver, insert 2 pieces of AAA batteries according to the polarity indicated. Replace the cover and tighten the screws.

## **ALTITUDE SETTING**


After battery installation, the main unit will enter altitude setting mode directly. Press “▲” or “▼” to select the unit in meter or feet. Press “PRESSURE” to confirm. Then press “▲” or “▼” to enter your current altitude. Press “PRESSURE” to confirm and exit the setting. This allows the unit to provide a more accurate weather forecast reading. (For more information, see “WEATHER FORECAST & BAROMETRIC PRESSURE” section)


## **SETTING UP THE WIRELESS THERMO-HYGROMETER:**

- For the first installation, always turn on the home unit and then the remote sensor. Set Channel 1 for the first remote sensor. Set channel 2 and channel 3 for the 2<sup>nd</sup> and 3<sup>rd</sup> sensor.
- Press and hold CHANNEL/SEARCH button on main unit until a beep is sound to search for remote sensor.
- Press the Tx button on the back of remote sensor to transmit RF signal.
- When RF connection is established, the respective temperature & humidity of the selected channel will appear on the main unit.

## **RADIO-CONTROLLED CLOCK**

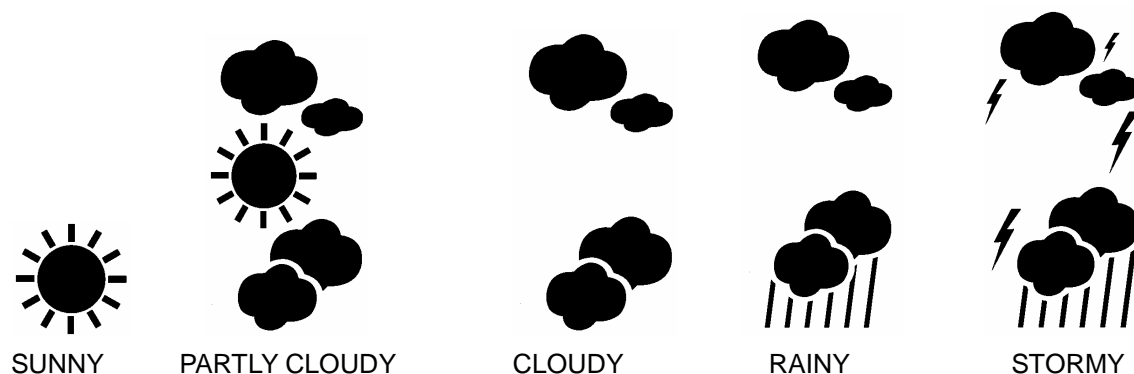
The unit will start synchronizing the clock after battery/adapter installation or reset. In normal mode,

press “” in the battery compartment to enforce searching of radio-controlled clock signal. The antenna icon will appear during synchronization, if the icon disappear afterwards, radio time signal is not available at the moment. Try other locations later. Place the unit away from source of interference such as mobile phones, appliances, TV etc.

Antenna icon with full signal strength  will appear on screen if the reception of radio-controlled time is successful. The radio-controlled clock will have a daily synchronization at 02:03 and 03:03 everyday. Each reception cycle is minimum 2.5 minutes and maximum 10 minutes.

## WEATHER FORECAST & BAROMETRIC PRESSURE

The unit predicts weather condition of the next 12 – 24 hours based on the change of atmospheric pressure. The coverage area is around 30 – 50 km. The weather forecast is based on atmospheric pressure change and is about 70-75% correct. As weather conditions cannot be 100% correctly forecasted, we cannot be responsible for any loss caused by an incorrect forecast.




To obtain an accurate weather forecast & barometric pressure reading, you need to input your current altitude. After the reset of the unit, it will enter the altitude setting mode. Press “▲” or “▼” to set the unit first, and then press “PRESSURE” and enter your current altitude. Press “PRESSURE” to confirm and exit the setting. You can also hold “PRESSURE” button to enter altitude setting mode during normal use.

Press PRESSURE button to select pressure unit between hPa, inHg & mb.

## IN/OUT TEMPERATURE & HUMIDITY

Temperature reading is located on the lower left of the display and humidity is on the lower right.

Press “C/F” button to select temperature unit C/ F.

Press CHANNEL/SEARCH button to select indoor, Ch1, Ch2, Ch3 and auto-channel scrolling  display modes.

## IN/OUT HEAT INDEX

Heat Index combines the effects of heat and humidity. It is the apparent temperature of how hot the heat-humidity combination makes it feels.

Press “Heat Index/Dew Point” button once to show the respective indoor or outdoor heat index on the lower left display. “HEAT INDEX” icon will appear.

### **IN/OUT HEAT INDEX ALERT INDICATOR**

Heat index alert indicators of the respective indoor or outdoor channels

|                 |                                    |
|-----------------|------------------------------------|
| Caution         | Exercise more fatiguing than usual |
| Extreme caution | Heat cramps, exhaustion possible   |
| Danger          | Heat exhaustion likely             |
| Extreme danger  | Heat stroke imminent               |

### **IN/OUT DEW POINT**

Dew point is the saturation point of the air, or the temperature to which the air has to be cooled in order to get condensation.

In normal mode, press HEAT INDEX / DEW POINT button twice to show the respective indoor or outdoor dew point reading on the lower left display. "DEW POINT" icon will appear.

### **IN/OUT COMFORT LEVEL**

In/Out Comfort indicator combines the effect of temperature & humidity and displays in 3 levels:

|       |  |
|-------|--|
| COMF: | Comfortable level, ideal range for both temperature & humidity |
| WET:  | Contain excess moisture  |
| DRY:  | Contain inadequate moisture                                    |

### **COLOR BAR GRAPHS**

The color graphs are designed as an intuitive way to gauge the weather at a glance.

The left color bar graph represents the respective In/Out temperature, heat index or dew point of the current display mode. The right graph represents the respective In/Out humidity. As the measurements change, the number of illuminated bars changes automatically.

### **MAXIMUM / MINIMUM MEMORY**

Press MEMORY button repeatedly to view the maximum & minimum values of temperature, humidity, heat index or dew point readings. To clear the memory record, hold MEMORY button while the respective values are displaying on screen.

### **TEMPERATURE & HUMIDITY TREND INDICATOR**

The icons will indicate Rising, Steady, Falling if the temperature or humidity change is more than 1 degree C (or 2 degree F) within an hour.

### **CLOCK & CALENDAR**

Press "CLOCK" to toggle display between time, calendar and day of the week.

Hold "CLOCK" button to enter clock setting mode. Using "▲" or "▼" to adjust and "CLOCK" to confirm,

the following values can be set in sequence:

12/24hr format > Hr > Min > Yr > D/M or M/D format > Month > Date > EXIT

### **MOON PHASE**

Moon phase is displayed according to the current calendar.

### **HOME TIME, WORLD (ZONE) TIME**

Hold "ZONE" to enter world (zone) time setting mode. Press "▲" or "▼" to enter the desired hour offset value from -12 to +12 hours. Press "ZONE" to confirm each setting.

Press "ZONE" button to toggle between home (radio-controlled) time and world (zone) time. "ZONE" icon appears when world (zone) time is selected. When zone time is not used, set zone time to "0".

### **ALARM SETTING**

Press "ALARM" to show alarm time and "AL." icon will appear. Press again to enable or disable the

alarm. Bell icon  appears when alarm is enabled.

Hold "ALARM" to enter alarm time setting mode. Press "▲" or "▼" to enter the desired Hr/ Min values and press "ALARM" to confirm setting.

### **SNOOZE & BACKLIGHT**

When alarm is going off, press SNOOZE/ LIGHT to trigger snooze alarm and "Zz" icon will appear. To stop alarm for one day, press "ALARM" key. Press SNOOZE/LIGHT for an extended backlight if adapter is not connected.

### **FM-RADIO**

Press the "Scan" button to search for the radio stations.

Press the "Reset" button to return to the starting point of the search for the radio stations.

### **LOW BATTERY INDICATION**

Low battery indication is available for the home unit itself and all of the 3 remote channels. Replace the batteries and follow the setup procedure in this instruction manual.

### **BATTERY DISPOSAL**

Replace only with the same or equivalent type recommended by the manufacturer.

Please disposal of old, defective batteries in an environmentally friendly manner in accordance with the relevant legislation.

## **SPECIFICATIONS**

Indoor Temperature: 0 C to + 50 C (+32 F to +122 F)

In/Out Humidity : 20% - 99% RH

Remote sensor : -20 C to +60 C (-4 F to +140 F)

Channel : max. 3 remote sensors

Transmission : up to 75M (246 ft.) in open area, RF434 MHz

Resolution : 0.1 degree C for temperature, 1% for humidity

Clock : DCF77 Radio-Controlled, Quartz back-up

Power : 6.0V adapter & AA x 3 pcs for main unit

AAA x 2 pcs for remote sensor